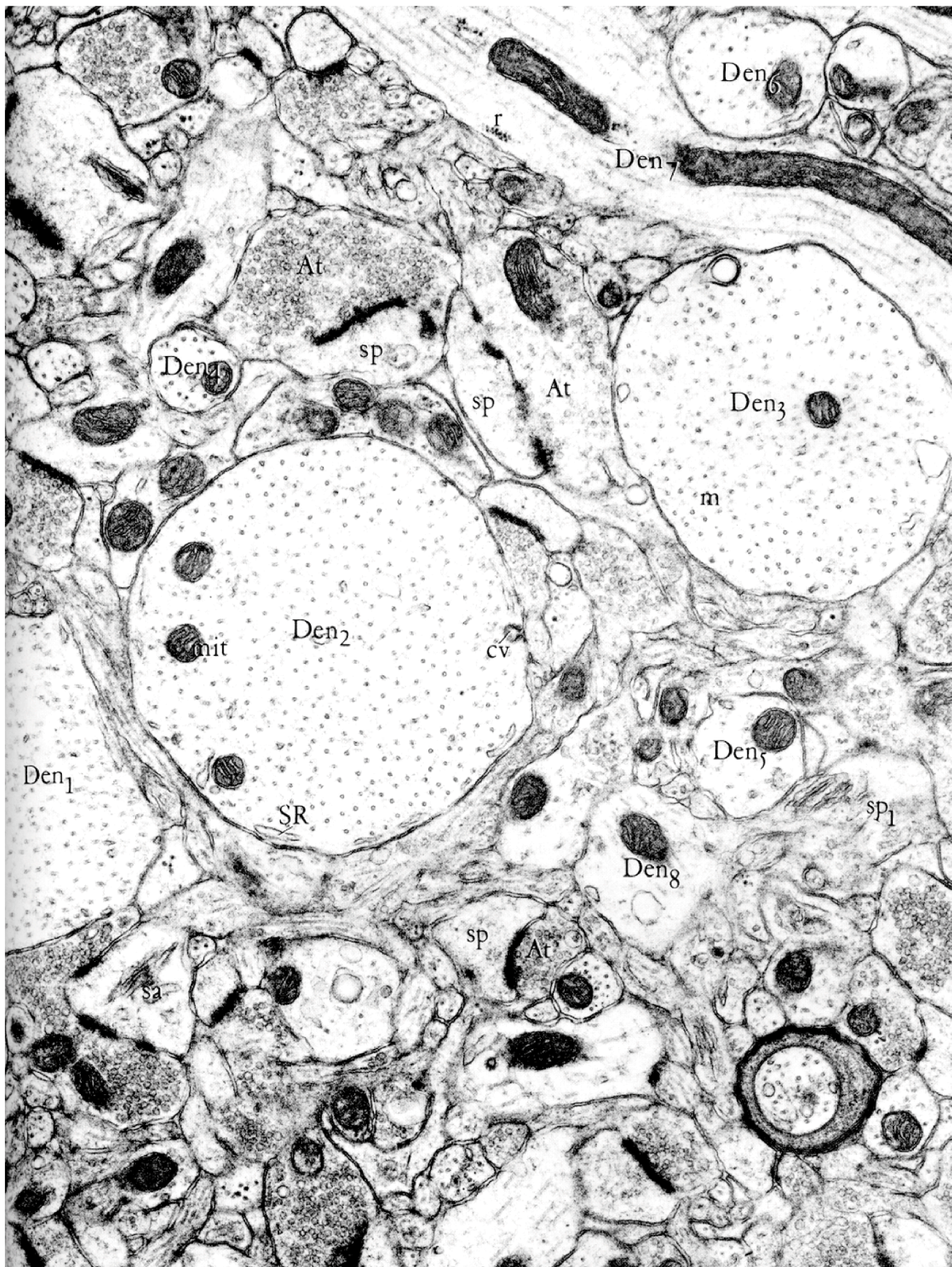
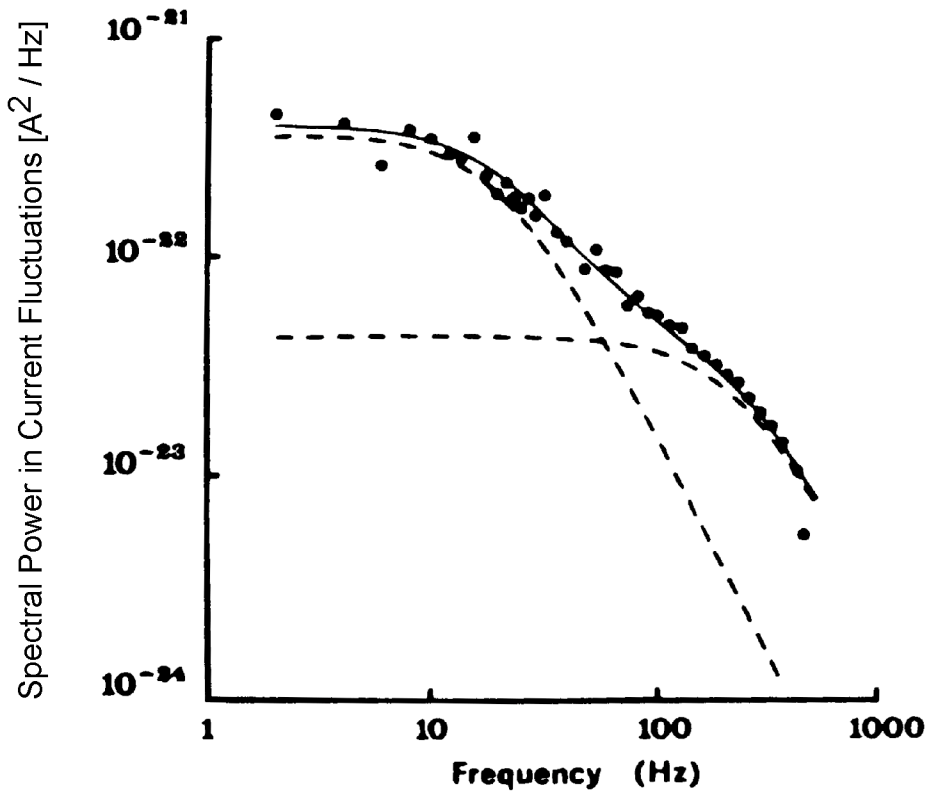
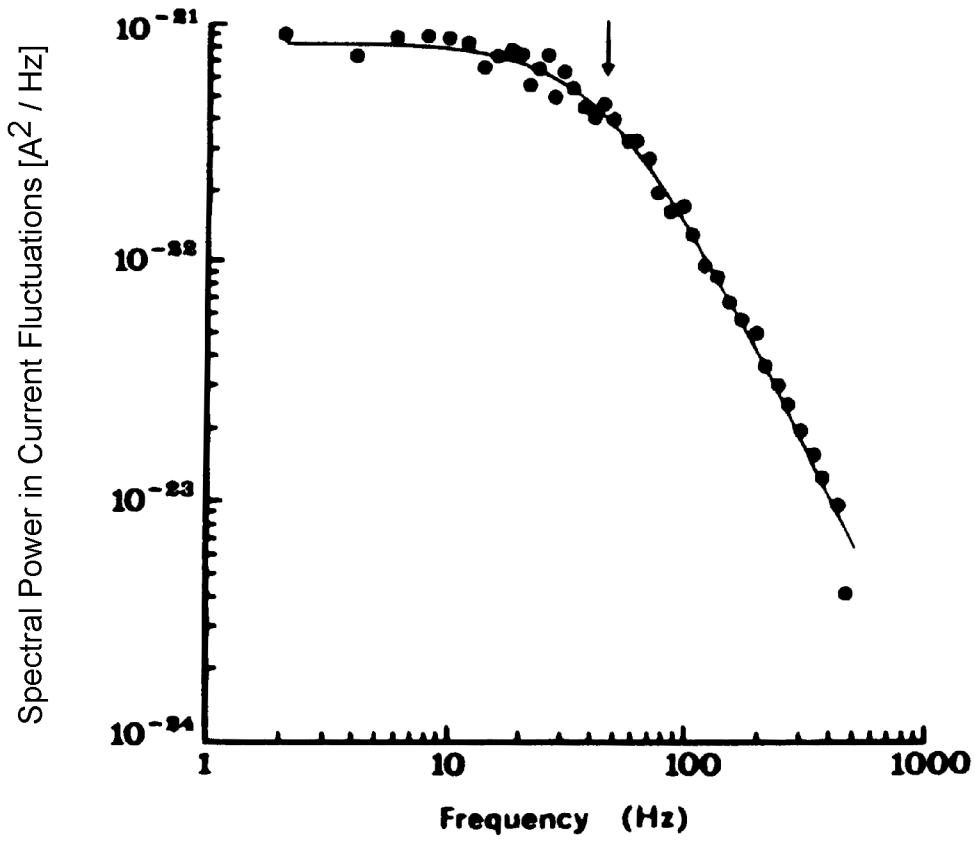
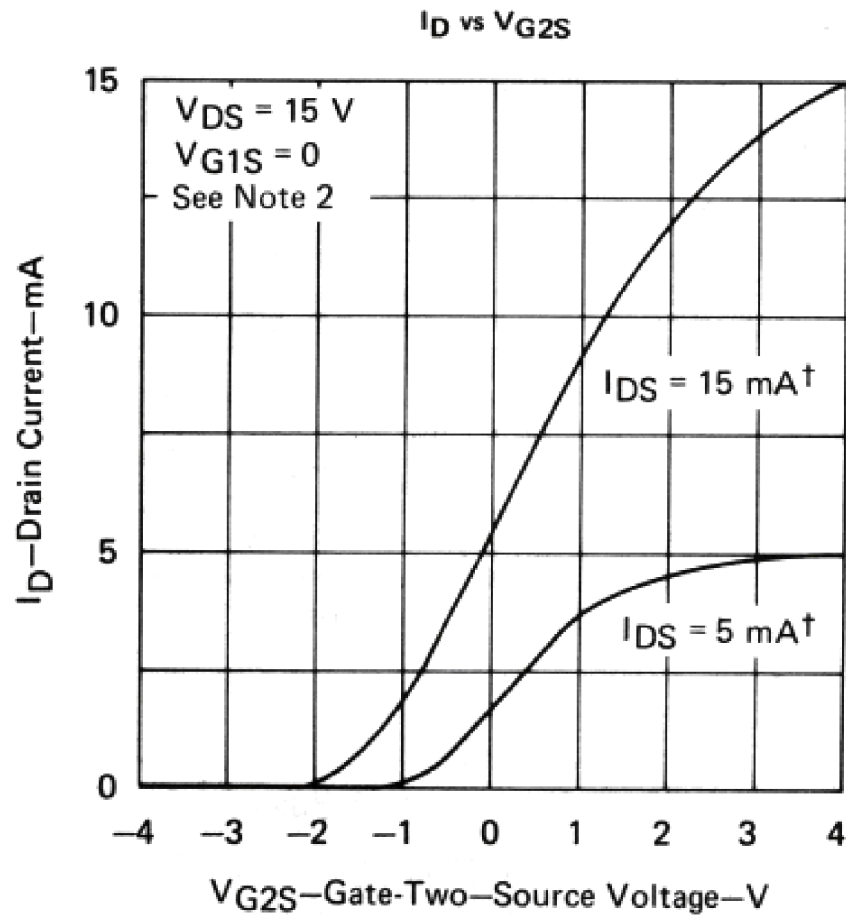
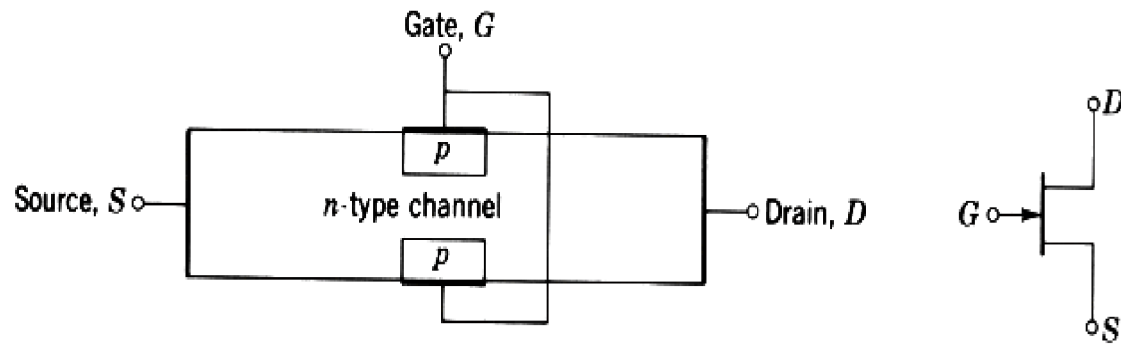
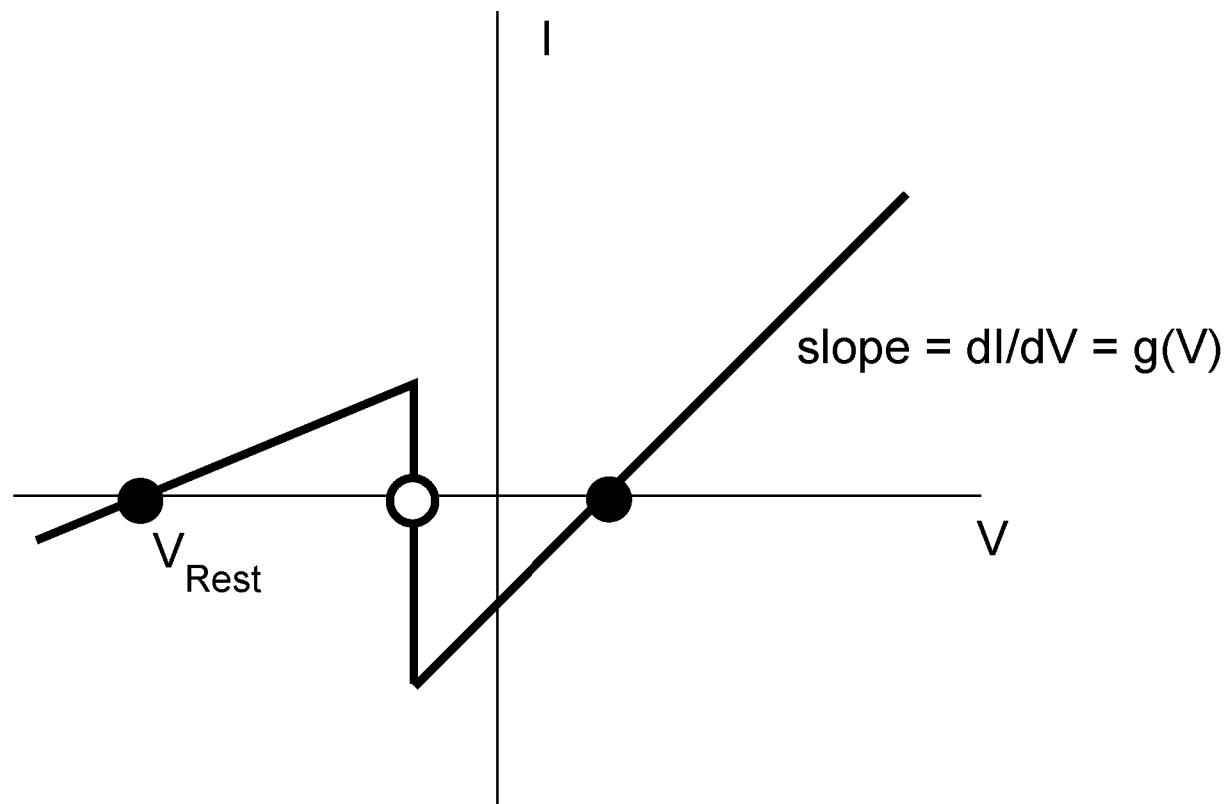
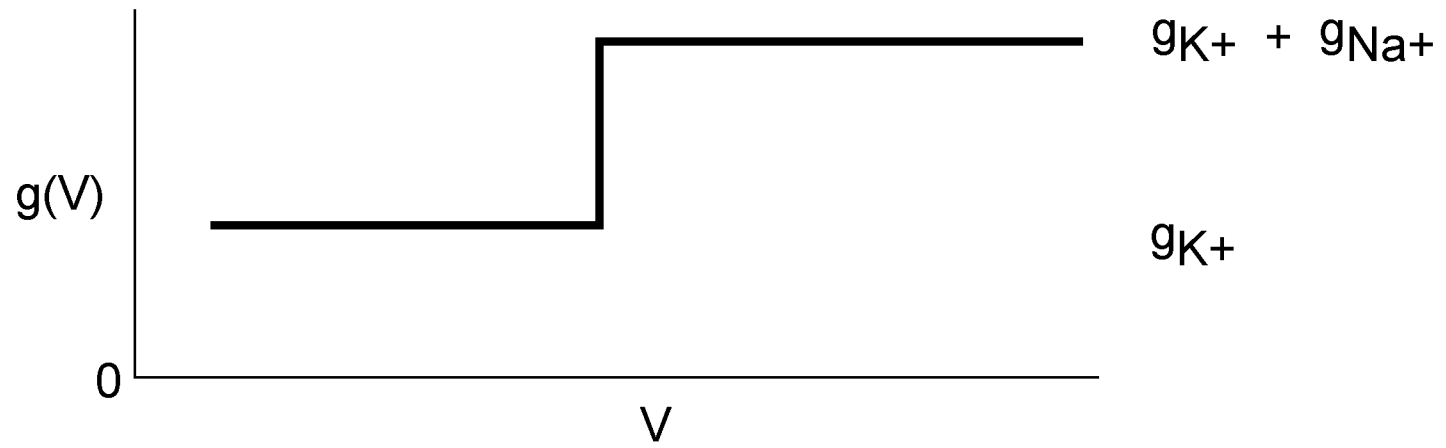


(A) α motoneuron in spinal cord of cat (2.6 mm). Reprinted by permission from Cullheim, Fleshman, and Burke (1987). (B) Spiking interneuron in mesothoracic ganglion of locust (0.54 mm). Unpublished data from G. Laurent, with permission. (C) Layer 5 neocortical pyramidal cell in rat (1.03 mm). Reprinted by permission from Amitai et al., (1993). (D) Retinal ganglion cell in postnatal cat (0.39 mm). Reprinted by permission from Maslim, Webster, and Stone (1986). (E) Amacrine cell in retina of larval tiger salamander (0.16 mm). Reprinted by permission from Yang and Yazulla (1986). (F) Cerebellar Purkinje cell in human. Reprinted by permission from Ramón y Cajal (1909). (G) Relay neuron in rat ventrobasal thalamus (0.35 mm). Reprinted by permission from Harris (1986). (H) Granule cell from olfactory bulb of mouse (0.26 mm). Reprinted by permission from Greer (1987). (I) Spiny projection neuron in rat striatum (0.37 mm). Reprinted by permission from Penny, Wilson, and Kitai (1988). (J) Nerve cell in the nucleus of Burdach in human fetus. Reprinted by permission from Ramón y Cajal (1909). (K) Purkinje cell in mormyrid fish (0.42 mm). Reprinted by permission from Meek and Nieuwenhuys (1991). (L) Golgi epithelial (glia) cell in cerebellum of normal-reeler mouse chimera (0.15 mm). Reprinted by permission from Terashima et al., (1986). (M) Axonal arborization of isthmotectal neurons in turtle (0.46 mm). Reprinted by permission from Sereno and Ulinski (1987).

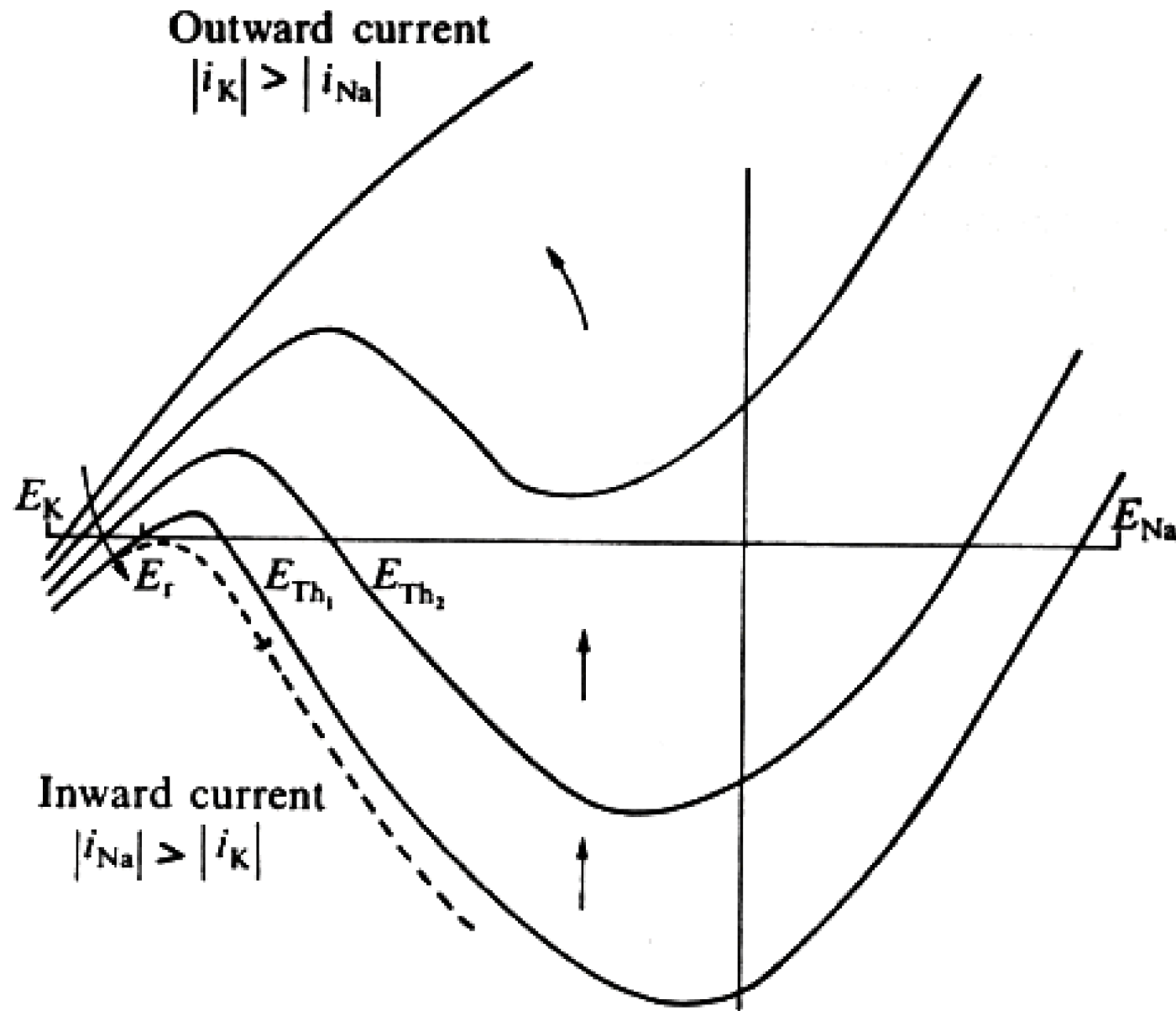




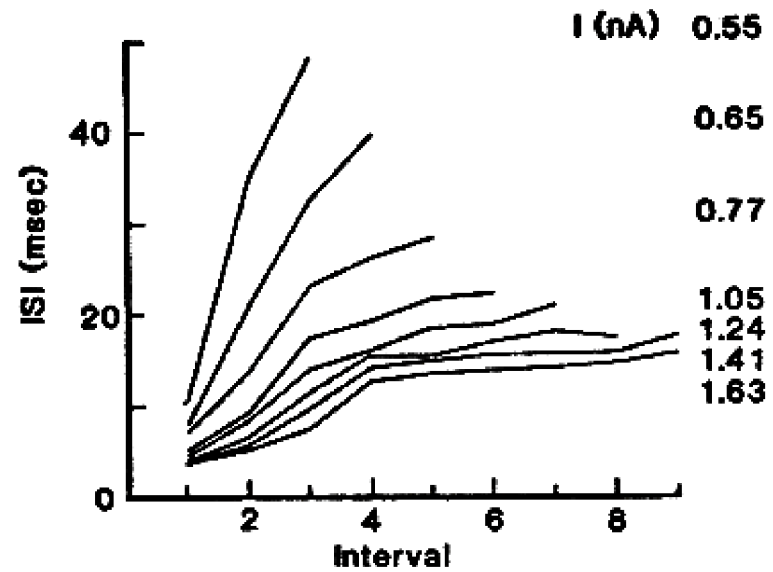
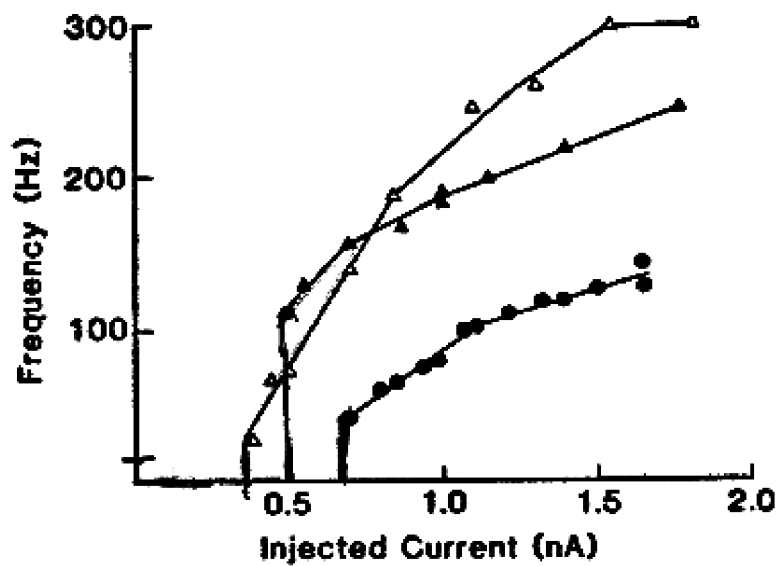
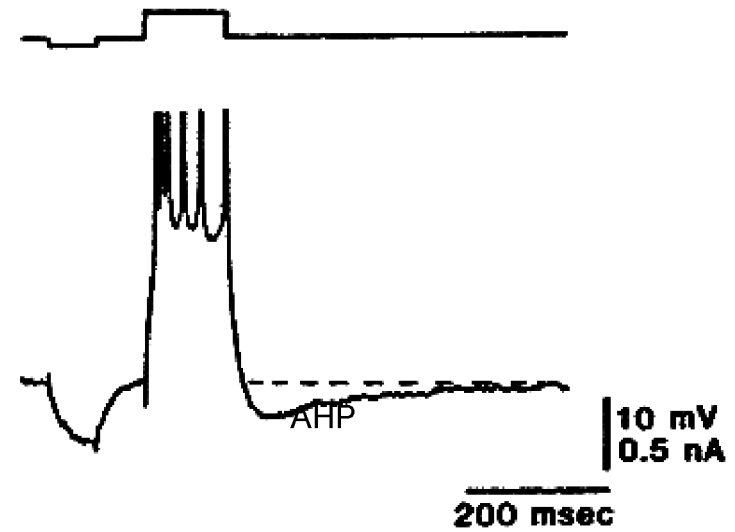
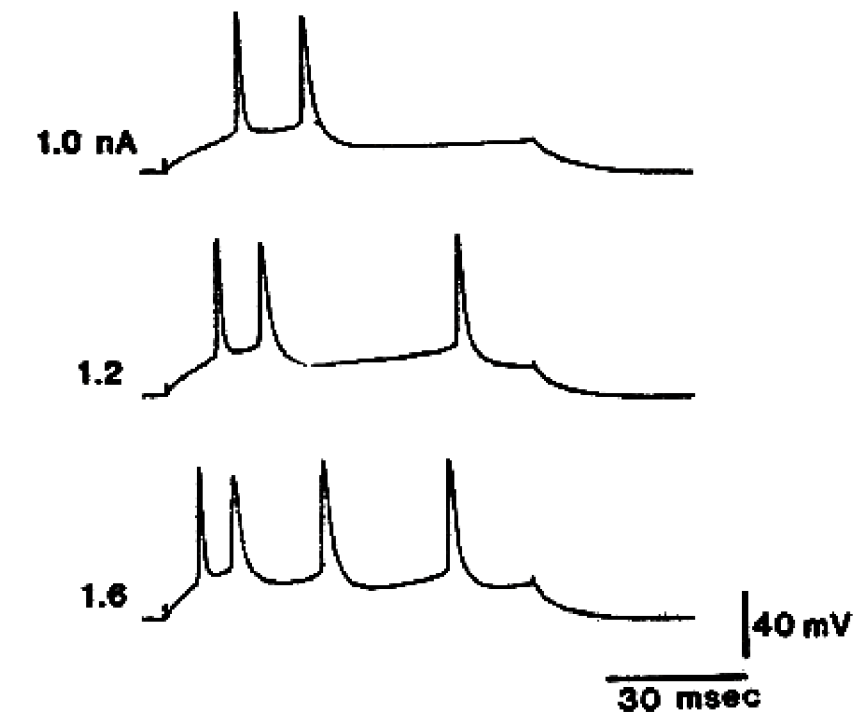




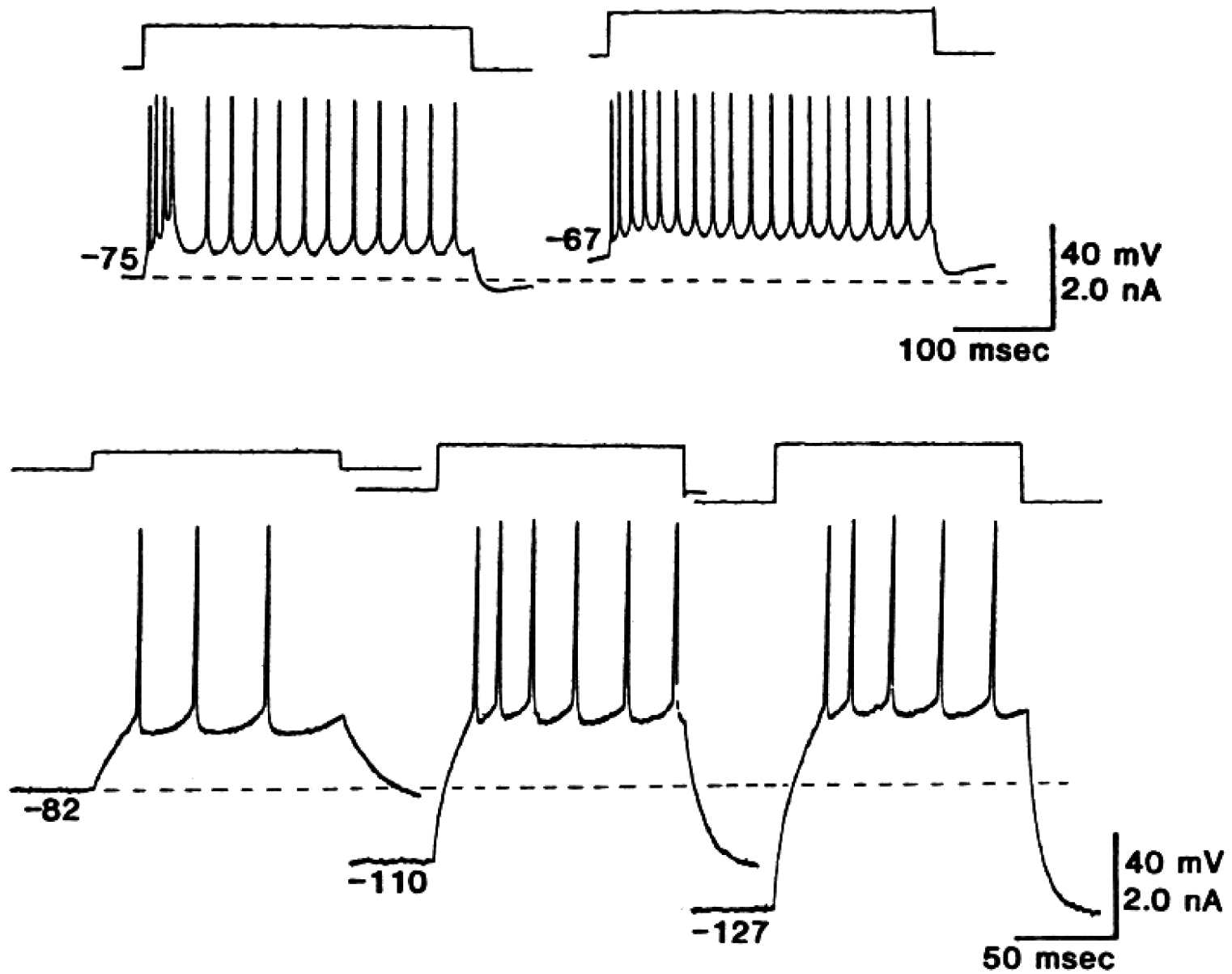
I-V curves for Squid Axon from Action Potential Trigger to Recovery



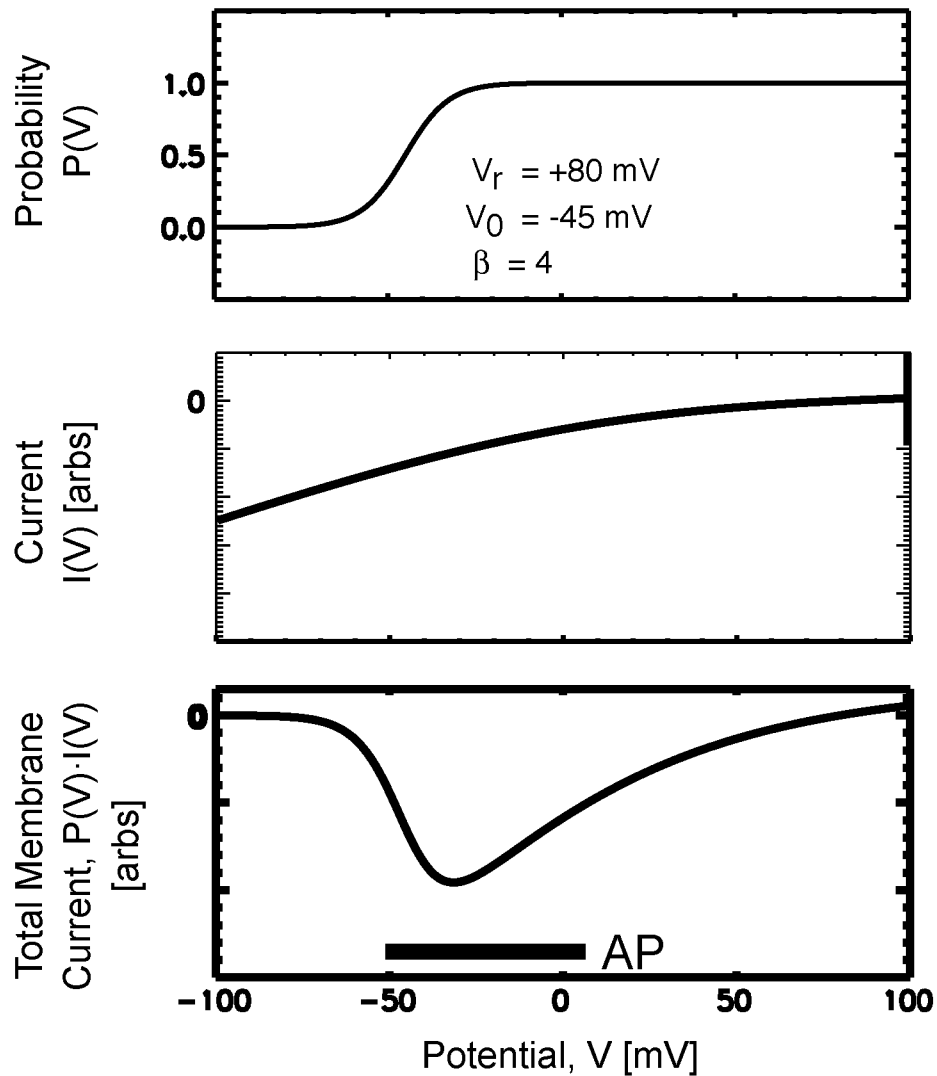
Regular Neocortical Pyramidal Cell



Bursting vs. Regular Neocortical Pyramidal Cell



Na⁺ - Channels
(Action Potential Current)



Ca²⁺ - Channels
(Synaptic Activation Current)

